**Control Structure (Repetitive Structure)**

Q1: Write a pseudocode and draw a flow chart to read student’s name and marks from a user and display a message whether the student has passed or failed the exam. The passing mark is 50.

Sample input/output:

Please enter your name: James Payne

Please enter your marks: 60

James Payne, you have passed the module.

Sample input/output:

Please enter your name: James Payne

Please enter your marks: 60

James Payne, you have passed the module.

Q2. Write a pseudocode and draw a flow chart to find the grade of a student based on the value of marks entered by a user using the following table:

|  |  |  |
| --- | --- | --- |
| Range of marks | Grade | Status |
| 80 – 100 | A | Pass |
| 70 – 79 | B | Pass |
| 60 – 69 | C | Pass |
| 50 – 59 | D | Pass |
| 0 – 49 | F | Fail |

For marks greater than 100 and less than 0 display a message “invalid entry”

Sample input/output:

Enter your marks: 57

Your grade is: D

Enter your marks: 120

Invalid entry

Q3. Write a pseudocode and draw a flow chart to display numbers from 1 to 20.

(Note: use all types of repetitive structures)

Q4: Write a pseudocode and draw a flow chart to display the first 20 even numbers on the screen. 0, 2, 4, 6, …38

(Note: use all types of repetitive structures)

Q5: Write a pseudocode and draw a flow chart using a counter controlled repetitive structure that will output the seven times table, as follows:

7 x 1 = 7

7 x 2 = 14

7 x 3 = 21

……………

7 x 10 = 70